

ANALYTICAL REPORT

Job Number: 280-56309-1

Job Description: 995|Waimanalo Gulch LF

For:

Waste Management
Waimanalo Gulch Landfill
92-460 Farrington Highway
Kapolei, HI 96707

Attention: Mr. Justin Lottig



Approved for release.
Betsy A Sara
Project Manager II
7/3/2014 4:12 PM

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07/03/2014
Revision: 1

cc: Mr. Mark Hofferbert
Ms. Margie Thach

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Waste Management

Project: 995|Waimanalo Gulch LF

Report Number: 280-56309-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The sample was received on 06/06/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.6 C.

Holding Times

Method 218.6 requires samples to be preserved to a pH in the range of 9.3-9.7. The sample DB01-W was incorrectly preserved by TA Honolulu to a pH of 9.19 due to misinformation from TA Irvine. The pH was off by 0.2 units. The sample was further preserved to the appropriate pH in the laboratory and data was flagged with H qualifier.

All other holding times were met.

Method Blanks

Total Iron Method 200.7, Total Mercury Method 245.1, Total Phosphorus Method 365.1 and Chemical Oxygen Demand (COD) Method 410.4 were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

The Method 625 laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) recovered below the lower control limit for Hexachlorocyclopentadiene. Because Hexachlorocyclopentadiene has been identified as a poor performer, re-extraction and reanalysis were not performed.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 625 and Method 1664A due to insufficient sample volume, however, LCS/LCSD pairs were analyzed to demonstrate method precision and accuracy.

The percent recoveries and/or relative percent difference of the MS/MSD performed on a sample from another client were outside control limits for Total Iron Method 200.7 because the sample concentration was greater than four times the spike amount. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, no corrective action was taken.

The Matrix Spikes and Matrix Spike Duplicates performed on samples from other clients exhibited MS and/or MSD recoveries outside control limits for Ammonia Method 350.1 and Total Kjeldahl Nitrogen (TKN) Method 351.2. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.

General Comments

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

The analysis for Biochemical Oxygen Demand (BOD) was performed by TestAmerica Honolulu. Their address and phone number are:
TestAmerica Honolulu
1946 Young Street
Suite 400A
Honolulu, HI 96826
Phone: 808.486.5227

The analysis for Hexavalent Chromium was performed at TestAmerica's Irvine facility.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614
Phone: 949.261.1022

Report Revision

This submission was revised to further explain the Hexavalent Chromium pH issue per the client's request.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-56309-1

Lab Sample ID Analyte	Client Sample ID Analyte	Result	Qualifier	Reporting Limit	Units	Method
280-56309-1	DB01-W					
Mercury		0.000059	J B	0.00020	mg/L	245.1
Field pH		7.89			SU	Field Sampling
Ammonia		0.092	J	0.10	mg/L	350.1
Nitrogen, Kjeldahl		0.45	J	0.50	mg/L	351.2
Nitrate Nitrite as N		8.4		0.10	mg/L	353.2
Phosphorus, Total		0.29	B	0.050	mg/L	365.1
Chemical Oxygen Demand		22	B	20	mg/L	410.4
Total Suspended Solids		22		4.0	mg/L	SM 2540D
Nitrogen, Total		8.9		0.10	mg/L	Total Nitrogen
<i>Dissolved</i>						
Chromium, hexavalent		3.5	H	1.0	ug/L	218.6
<i>Total Recoverable</i>						
Iron		1.9	B	0.10	mg/L	200.7 Rev 4.4
Zinc		0.069		0.020	mg/L	200.7 Rev 4.4

METHOD SUMMARY

Client: Waste Management

Job Number: 280-56309-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	40CFR136A 625	
Liquid-Liquid Extraction	TAL DEN		40CFR136A 625
Metals (ICP)	TAL DEN	EPA 200.7 Rev 4.4	
Preparation, Total Recoverable Metals	TAL DEN		EPA 200.7
Mercury (CVAA)	TAL DEN	EPA 245.1	
Preparation, Mercury	TAL DEN		EPA 245.1
HEM and SGT-HEM	TAL DEN	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL DEN		1664A 1664A
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrogen, Total Kjeldahl	TAL DEN	MCAWW 351.2	
Nitrogen, Total Kjeldahl	TAL DEN		MCAWW 351.2
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Phosphorus, Total	TAL DEN	EPA 365.1	
Phosphorus, Total	TAL DEN		MCAWW 365.2/365.3/365
COD	TAL DEN	MCAWW 410.4	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Nitrogen, Total	TAL DEN	EPA Total Nitrogen	
Field Sampling	TAL DEN	EPA Field Sampling	
General Sub Contract Method	TAL HON	Subcontract	
Chromium, Hexavalent (Ion Chromatography)	TAL IRV	EPA 218.6	
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL DEN = TestAmerica Denver

TAL HON = TestAmerica Honolulu

TAL IRV = TestAmerica Irvine

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-56309-1

Method	Analyst	Analyst ID
40CFR136A 625	Kiekel, Daniel C	DCK
EPA 200.7 Rev 4.4	Scott, Samantha J	SJS
EPA 245.1	Broander, Laura L	LLB
EPA Field Sampling	Saraubon, Phakchaya	PS
1664A 1664A	Benson, Alex F	AFB
MCAWW 350.1	Lawrence, Caitlyn M	CML
MCAWW 351.2	Woolley, Mark -	MW1
MCAWW 353.2	Ayala, Delaina V	DVA
EPA 365.1	Schwemin, Andrew J	AJS
MCAWW 410.4	Benson, Alex F	AFB
SM SM 2540D	Woolley, Mark -	MW1
EPA Total Nitrogen	Sullivan, Roxanne K	RKS
EPA 218.6	Welch, Raquel	RW

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-56309-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-56309-1	DB01-W	Water	06/03/2014 0945	06/06/2014 0900

SAMPLE RESULTS

Analytical Data

Client: Waste Management

Job Number: 280-56309-1

Client Sample ID: **DB01-W**Lab Sample ID: 280-56309-1
Client Matrix: WaterDate Sampled: 06/03/2014 0945
Date Received: 06/06/2014 0900**625 Semivolatile Organic Compounds (GC/MS)**

Analysis Method:	625	Analysis Batch:	280-229973	Instrument ID:	SMS_B2
Prep Method:	625	Prep Batch:	280-229290	Lab File ID:	B2-6130.D
Dilution:	1.0			Initial Weight/Volume:	1048.3 mL
Analysis Date:	06/13/2014 0556			Final Weight/Volume:	1 mL
Prep Date:	06/09/2014 1535			Injection Volume:	0.5 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Alpha-Terpineol	ND		0.0019	0.010
Benzoic acid	ND		0.0095	0.050
p-Cresol	ND		0.00024	0.010
Pentachlorophenol	ND		0.019	0.060
Phenol	ND		0.0019	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	89		50 - 120
2-Fluorobiphenyl	82		36 - 120
2-Fluorophenol	82		30 - 120
Nitrobenzene-d5	82		45 - 120
Phenol-d5	83		36 - 120
Terphenyl-d14	74		41 - 120

Analytical Data

Client: Waste Management

Job Number: 280-56309-1

Client Sample ID: **DB01-W**Lab Sample ID: 280-56309-1
Client Matrix: WaterDate Sampled: 06/03/2014 0945
Date Received: 06/06/2014 0900**218.6 Chromium, Hexavalent (Ion Chromatography)-Dissolved**

Analysis Method:	218.6	Analysis Batch:	440-187414	Instrument ID:	IC-16
	N/A	Prep Batch:	N/A	Lab File ID:	Info 2_TAIIRV167_Hex C
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	06/09/2014 1838			Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1000 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chromium, hexavalent	3.5	H	0.25	1.0

Analytical Data

Client: Waste Management

Job Number: 280-56309-1

Client Sample ID: **DB01-W**Lab Sample ID: 280-56309-1
Client Matrix: WaterDate Sampled: 06/03/2014 0945
Date Received: 06/06/2014 0900**200.7 Rev 4.4 Metals (ICP)-Total Recoverable**

Analysis Method:	200.7 Rev 4.4	Analysis Batch:	280-229629	Instrument ID:	MT_026
Prep Method:	200.7	Prep Batch:	280-229230	Lab File ID:	26A061114G.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/11/2014 0354			Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Lead	ND		0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	0.069		0.0045	0.020
Silver	ND		0.00093	0.010

Analysis Method:	200.7 Rev 4.4	Analysis Batch:	280-230134	Instrument ID:	MT_026
Prep Method:	200.7	Prep Batch:	280-229230	Lab File ID:	26a061214c.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/12/2014 2022			Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Iron	1.9	B	0.022	0.10

245.1 Mercury (CVAA)

Analysis Method:	245.1	Analysis Batch:	280-229417	Instrument ID:	MT_034
Prep Method:	245.1	Prep Batch:	280-229174	Lab File ID:	140609taa.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	06/09/2014 1755			Final Weight/Volume:	30 mL
Prep Date:	06/09/2014 1310				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.000059	J B	0.000027	0.00020

Analytical Data

Client: Waste Management

Job Number: 280-56309-1

General Chemistry**Client Sample ID:** DB01-W

Lab Sample ID: 280-56309-1

Date Sampled: 06/03/2014 0945

Client Matrix: Water

Date Received: 06/06/2014 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM	ND		mg/L	1.6	5.0	1.0	1664A
	Analysis Batch: 280-230195		Analysis Date: 06/13/2014 1418				
	Prep Batch: 280-230112		Prep Date: 06/13/2014 0836				
Ammonia	0.092	J	mg/L	0.022	0.10	1.0	350.1
	Analysis Batch: 280-229833		Analysis Date: 06/11/2014 2049				
Nitrogen, Kjeldahl	0.45	J	mg/L	0.18	0.50	1.0	351.2
	Analysis Batch: 280-230084		Analysis Date: 06/13/2014 0036				
	Prep Batch: 280-230046		Prep Date: 06/12/2014 1836				
Nitrate Nitrite as N	8.4		mg/L	0.019	0.10	1.0	353.2
	Analysis Batch: 280-230330		Analysis Date: 06/14/2014 1233				
Phosphorus, Total	0.29	B	mg/L	0.0050	0.050	1.0	365.1
	Analysis Batch: 280-230204		Analysis Date: 06/13/2014 1405				
	Prep Batch: 280-229630		Prep Date: 06/11/2014 0927				
Chemical Oxygen Demand	22	B	mg/L	4.1	20	1.0	410.4
	Analysis Batch: 280-229175		Analysis Date: 06/09/2014 0824				
Total Suspended Solids	22		mg/L	1.1	4.0	1.0	SM 2540D
	Analysis Batch: 280-229501		Analysis Date: 06/10/2014 1526				
Nitrogen, Total	8.9		mg/L	0.042	0.10	1.0	Total Nitrogen
	Analysis Batch: 280-231242		Analysis Date: 06/20/2014 0953				

Analytical Data

Client: Waste Management

Job Number: 280-56309-1

Field Service / Mobile Lab**Client Sample ID:** DB01-W

Lab Sample ID: 280-56309-1

Date Sampled: 06/03/2014 0945

Client Matrix: Water

Date Received: 06/06/2014 0900

Analyte	Result	Qual	Units	Dil	Analysis	Date Analyzed	
					Method	Batch	Date Prepared
Field pH	7.89		SU	1.0	Field Sampling	280-229380	06/03/2014 1345

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-56309-1

Lab Section	Qualifier	Description
GC/MS Semi VOA	*	Recovery or RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
HPLC/IC	H	Sample was prepped or analyzed beyond the specified holding time
Metals	B	Compound was found in the blank and sample.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	B	Compound was found in the blank and sample.
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-229290					
LCS 280-229290/2-A	Lab Control Sample	T	Water	625	
LCSD 280-229290/3-A	Lab Control Sample Duplicate	T	Water	625	
MB 280-229290/1-A	Method Blank	T	Water	625	
280-56309-1	DB01-W	T	Water	625	
Analysis Batch: 280-229973					
LCS 280-229290/2-A	Lab Control Sample	T	Water	625	280-229290
LCSD 280-229290/3-A	Lab Control Sample Duplicate	T	Water	625	280-229290
MB 280-229290/1-A	Method Blank	T	Water	625	280-229290
280-56309-1	DB01-W	T	Water	625	280-229290

Report Basis

T = Total

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-229174					
LCS 280-229174/2-A	Lab Control Sample	T	Water	245.1	
MB 280-229174/1-A	Method Blank	T	Water	245.1	
280-56188-C-1-D MS	Matrix Spike	T	Water	245.1	
280-56188-C-1-E MSD	Matrix Spike Duplicate	T	Water	245.1	
280-56309-1	DB01-W	T	Water	245.1	
Prep Batch: 280-229230					
LCS 280-229230/2-A	Lab Control Sample	R	Water	200.7	
MB 280-229230/1-A	Method Blank	R	Water	200.7	
280-56309-1	DB01-W	R	Water	200.7	
280-56347-A-1-B MS	Matrix Spike	R	Water	200.7	
280-56347-A-1-C MSD	Matrix Spike Duplicate	R	Water	200.7	
Analysis Batch:280-229417					
LCS 280-229174/2-A	Lab Control Sample	T	Water	245.1	280-229174
MB 280-229174/1-A	Method Blank	T	Water	245.1	280-229174
280-56188-C-1-D MS	Matrix Spike	T	Water	245.1	280-229174
280-56188-C-1-E MSD	Matrix Spike Duplicate	T	Water	245.1	280-229174
280-56309-1	DB01-W	T	Water	245.1	280-229174
Analysis Batch:280-229629					
LCS 280-229230/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-229230
MB 280-229230/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-229230
280-56309-1	DB01-W	R	Water	200.7 Rev 4.4	280-229230
280-56347-A-1-B MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-229230
280-56347-A-1-C MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-229230
Analysis Batch:280-229897					
LCS 280-229230/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-229230
MB 280-229230/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-229230
280-56309-1	DB01-W	R	Water	200.7 Rev 4.4	280-229230
280-56347-A-1-B MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-229230
280-56347-A-1-C MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-229230
Analysis Batch:280-230134					
LCS 280-229230/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-229230
MB 280-229230/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-229230
280-56309-1	DB01-W	R	Water	200.7 Rev 4.4	280-229230
280-56347-A-1-B MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-229230
280-56347-A-1-C MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-229230

Report Basis

R = Total Recoverable

T = Total

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-229380					
280-56309-1	DB01-W	T	Water	Field Sampling	

Report Basis

T = Total

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-229175					
LCS 280-229175/3	Lab Control Sample	T	Water	410.4	
LCSD 280-229175/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-229175/5	Method Blank	T	Water	410.4	
280-56309-1	DB01-W	T	Water	410.4	
280-56309-1MS	Matrix Spike	T	Water	410.4	
280-56309-1MSD	Matrix Spike Duplicate	T	Water	410.4	
Analysis Batch:280-229501					
LCS 280-229501/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-229501/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-229501/3	Method Blank	T	Water	SM 2540D	
280-56309-1	DB01-W	T	Water	SM 2540D	
280-56309-1DU	Duplicate	T	Water	SM 2540D	
Prep Batch: 280-229630					
LCS 280-229630/3-A	Lab Control Sample	T	Water	365.2/365.3/365	
LCSD 280-229630/4-A	Lab Control Sample Duplicate	T	Water	365.2/365.3/365	
MB 280-229630/5-A	Method Blank	T	Water	365.2/365.3/365	
280-56309-1	DB01-W	T	Water	365.2/365.3/365	
280-56309-1MS	Matrix Spike	T	Water	365.2/365.3/365	
280-56309-1MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
Analysis Batch:280-229833					
LCS 280-229833/70	Lab Control Sample	T	Water	350.1	
LCSD 280-229833/71	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-229833/72	Method Blank	T	Water	350.1	
280-56309-1	DB01-W	T	Water	350.1	
280-56365-A-9 MS	Matrix Spike	T	Water	350.1	
280-56365-A-9 MSD	Matrix Spike Duplicate	T	Water	350.1	
Prep Batch: 280-230046					
LCS 280-230046/1-A	Lab Control Sample	T	Water	351.2	
LCSD 280-230046/2-A	Lab Control Sample Duplicate	T	Water	351.2	
MB 280-230046/3-A	Method Blank	T	Water	351.2	
280-56144-F-10-C MS	Matrix Spike	T	Water	351.2	
280-56144-F-10-D MSD	Matrix Spike Duplicate	T	Water	351.2	
280-56309-1	DB01-W	T	Water	351.2	
Analysis Batch:280-230084					
LCS 280-230046/1-A	Lab Control Sample	T	Water	351.2	280-230046
LCSD 280-230046/2-A	Lab Control Sample Duplicate	T	Water	351.2	280-230046
MB 280-230046/3-A	Method Blank	T	Water	351.2	280-230046
280-56144-F-10-C MS	Matrix Spike	T	Water	351.2	280-230046
280-56144-F-10-D MSD	Matrix Spike Duplicate	T	Water	351.2	280-230046
280-56309-1	DB01-W	T	Water	351.2	280-230046

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-230112					
LCS 280-230112/2-A	Lab Control Sample	T	Water	1664A	
LCSD 280-230112/3-A	Lab Control Sample Duplicate	T	Water	1664A	
MB 280-230112/1-A	Method Blank	T	Water	1664A	
280-56309-1	DB01-W	T	Water	1664A	
Analysis Batch:280-230195					
LCS 280-230112/2-A	Lab Control Sample	T	Water	1664A	280-230112
LCSD 280-230112/3-A	Lab Control Sample Duplicate	T	Water	1664A	280-230112
MB 280-230112/1-A	Method Blank	T	Water	1664A	280-230112
280-56309-1	DB01-W	T	Water	1664A	280-230112
Analysis Batch:280-230204					
LCS 280-229630/3-A	Lab Control Sample	T	Water	365.1	280-229630
LCSD 280-229630/4-A	Lab Control Sample Duplicate	T	Water	365.1	280-229630
MB 280-229630/5-A	Method Blank	T	Water	365.1	280-229630
280-56309-1	DB01-W	T	Water	365.1	280-229630
280-56309-1MS	Matrix Spike	T	Water	365.1	280-229630
280-56309-1MSD	Matrix Spike Duplicate	T	Water	365.1	280-229630
Analysis Batch:280-230330					
LCS 280-230330/20	Lab Control Sample	T	Water	353.2	
LCSD 280-230330/21	Lab Control Sample Duplicate	T	Water	353.2	
MB 280-230330/22	Method Blank	T	Water	353.2	
280-56283-L-1 MS	Matrix Spike	T	Water	353.2	
280-56283-L-1 MSD	Matrix Spike Duplicate	T	Water	353.2	
280-56309-1	DB01-W	T	Water	353.2	
Analysis Batch:280-231242					
MB 280-231242/1	Method Blank	T	Water	Total Nitrogen	
280-56309-1	DB01-W	T	Water	Total Nitrogen	

Report Basis

T = Total

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Analysis Batch:440-187414					
LCS 440-187414/2	Lab Control Sample	T	Water	218.6	
MB 440-187414/3	Method Blank	T	Water	218.6	
280-56309-1	DB01-W	D	Water	218.6	
280-56309-1MS	Matrix Spike	D	Water	218.6	
280-56309-1MSD	Matrix Spike Duplicate	D	Water	218.6	

Report Basis

D = Dissolved

T = Total

Surrogate Recovery Report**625 Semivolatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
280-56309-1	DB01-W	89	82	82	82	83	74
MB 280-229290/1-A		86	83	82	83	83	96
LCS 280-229290/2-A		96	82	85	82	84	92
LCSD 280-229290/3-A		94	81	85	84	84	89

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol	50-120
FBP = 2-Fluorobiphenyl	36-120
2FP = 2-Fluorophenol	30-120
NBZ = Nitrobenzene-d5	45-120
PHL = Phenol-d5	36-120
TPH = Terphenyl-d14	41-120

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-229290**Method: 625****Preparation: 625**

Lab Sample ID:	MB 280-229290/1-A	Analysis Batch:	280-229973	Instrument ID:	SMS_B2
Client Matrix:	Water	Prep Batch:	280-229290	Lab File ID:	B2-6108.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/12/2014 1857	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	06/09/2014 1535			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alpha-Terpineol	ND		0.0020	0.010
Benzoic acid	ND		0.010	0.050
p-Cresol	ND		0.00025	0.010
Pentachlorophenol	ND		0.020	0.060
Phenol	ND		0.0020	0.010
Surrogate	% Rec		Acceptance Limits	
2,4,6-Tribromophenol	86		50 - 120	
2-Fluorobiphenyl	83		36 - 120	
2-Fluorophenol	82		30 - 120	
Nitrobenzene-d5	83		45 - 120	
Phenol-d5	83		36 - 120	
Terphenyl-d14	96		41 - 120	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-229290**

**Method: 625
Preparation: 625**

LCS Lab Sample ID:	LCS 280-229290/2-A	Analysis Batch:	280-229973	Instrument ID:	SMS_B2
Client Matrix:	Water	Prep Batch:	280-229290	Lab File ID:	B2-6109.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/12/2014 1927	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	06/09/2014 1535			Injection Volume:	0.5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-229290/3-A	Analysis Batch:	280-229973	Instrument ID:	SMS_B2
Client Matrix:	Water	Prep Batch:	280-229290	Lab File ID:	B2-6110.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/12/2014 1957	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	06/09/2014 1535			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec.						
	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	80	77	44 - 120	3	35		
1,2-Dichlorobenzene	79	76	32 - 120	4	42		
1,3-Dichlorobenzene	77	75	23 - 120	3	47		
1,4-Dichlorobenzene	77	75	24 - 120	2	49		
2,2'-Oxybis(1-chloropropane)	81	81	37 - 120	0	30		
2,4,6-Trichlorophenol	92	92	51 - 120	1	30		
2,4-Dichlorophenol	90	89	46 - 120	1	30		
2,4-Dimethylphenol	63	62	44 - 119	1	35		
2,4-Dinitrophenol	89	89	20 - 121	0	61		
2,4-Dinitrotoluene	99	96	57 - 120	3	35		
2,6-Dinitrotoluene	94	94	56 - 120	0	30		
2-Chloronaphthalene	78	76	60 - 118	3	30		
2-Chlorophenol	91	89	34 - 120	2	30		
2-Methylphenol	83	83	38 - 120	0	35		
2-Nitrophenol	98	98	47 - 120	0	30		
3,3'-Dichlorobenzidine	55	52	18 - 120	5	50	J	J
4,6-Dinitro-2-methylphenol	100	96	40 - 120	5	55		
4-Bromophenyl phenyl ether	88	84	53 - 120	4	34		
4-Chloro-3-methylphenol	86	85	57 - 120	1	30		
4-Chlorophenyl phenyl ether	83	82	51 - 120	1	30		
4-Nitrophenol	88	87	53 - 120	1	42		
Acenaphthene	80	80	47 - 120	0	30		
Acenaphthylene	78	77	33 - 120	2	30		
Anthracene	87	84	52 - 120	4	30		
Benzidine	33	31	10 - 218	7	50		
Benzo[a]anthracene	92	88	54 - 120	5	30		
Benzo[a]pyrene	87	83	39 - 120	5	73		
Benzo[b]fluoranthene	93	88	51 - 120	6	90		
Benzo[g,h,i]perylene	92	87	48 - 120	5	64		
Benzo[k]fluoranthene	94	89	49 - 120	5	50		
Bis(2-chloroethoxy)methane	87	88	50 - 120	1	30		
Bis(2-chloroethyl)ether	90	87	35 - 120	3	30		
Bis(2-ethylhexyl) phthalate	94	91	56 - 120	4	30		
Butyl benzyl phthalate	93	90	53 - 120	3	30		
Chrysene	93	89	51 - 120	4	30		
Dibenz(a,h)anthracene	95	86	45 - 120	10	78		

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-229290**

**Method: 625
Preparation: 625**

LCS Lab Sample ID:	LCS 280-229290/2-A	Analysis Batch:	280-229973	Instrument ID:	SMS_B2
Client Matrix:	Water	Prep Batch:	280-229290	Lab File ID:	B2-6109.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/12/2014 1927	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	06/09/2014 1535			Injection Volume:	0.5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-229290/3-A	Analysis Batch:	280-229973	Instrument ID:	SMS_B2
Client Matrix:	Water	Prep Batch:	280-229290	Lab File ID:	B2-6110.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/12/2014 1957	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	06/09/2014 1535			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Diethyl phthalate	92	90	59 - 114	2	30	
Dimethyl phthalate	91	89	58 - 112	2	30	
Di-n-butyl phthalate	94	91	57 - 118	4	30	
Di-n-octyl phthalate	97	94	56 - 120	3	30	
Fluoranthene	92	90	58 - 120	3	30	
Fluorene	83	83	59 - 120	0	30	
Hexachlorobenzene	92	89	53 - 120	4	30	
Hexachlorobutadiene	74	71	27 - 116	4	41	
Hexachlorocyclopentadiene	3	4	10 - 120	18	82	J *
Hexachloroethane	76	72	40 - 113	5	52	
Indeno[1,2,3-cd]pyrene	93	89	50 - 120	5	73	
Isophorone	80	79	50 - 120	1	30	
Naphthalene	82	80	37 - 120	2	30	
n-Decane	66	63	28 - 120	5	61	
Nitrobenzene	88	88	46 - 120	0	30	
N-Nitrosodimethylamine	83	82	37 - 120	1	30	
N-Nitrosodi-n-propylamine	85	84	50 - 120	0	30	
N-Nitrosodiphenylamine	83	80	46 - 203	3	50	
p-Cresol	84	85	42 - 120	0	39	
Pentachlorophenol	90	88	46 - 120	2	30	
Phenanthrene	89	86	54 - 120	2	30	
Phenol	88	87	37 - 112	1	30	
Pyrene	92	88	55 - 115	5	30	
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits	
2,4,6-Tribromophenol	96		94		50 - 120	
2-Fluorobiphenyl	82		81		36 - 120	
2-Fluorophenol	85		85		30 - 120	
Nitrobenzene-d5	82		84		45 - 120	
Phenol-d5	84		84		36 - 120	
Terphenyl-d14	92		89		41 - 120	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-229290**

**Method: 625
Preparation: 625**

LCS Lab Sample ID:	LCS 280-229290/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-229290/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/12/2014 1927			Analysis Date:	06/12/2014 1957
Prep Date:	06/09/2014 1535			Prep Date:	06/09/2014 1535
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,2,4-Trichlorobenzene	0.0800	0.0800	0.0639	0.0619
1,2-Dichlorobenzene	0.0800	0.0800	0.0634	0.0611
1,3-Dichlorobenzene	0.0800	0.0800	0.0619	0.0600
1,4-Dichlorobenzene	0.0800	0.0800	0.0616	0.0602
2,2'-Oxybis(1-chloropropane)	0.0800	0.0800	0.0647	0.0648
2,4,6-Trichlorophenol	0.0800	0.0800	0.0739	0.0734
2,4-Dichlorophenol	0.0800	0.0800	0.0721	0.0712
2,4-Dimethylphenol	0.0800	0.0800	0.0501	0.0495
2,4-Dinitrophenol	0.160	0.160	0.142	0.143
2,4-Dinitrotoluene	0.0800	0.0800	0.0795	0.0769
2,6-Dinitrotoluene	0.0800	0.0800	0.0752	0.0753
2-Chloronaphthalene	0.0800	0.0800	0.0628	0.0610
2-Chlorophenol	0.0800	0.0800	0.0731	0.0715
2-Methylphenol	0.0800	0.0800	0.0661	0.0661
2-Nitrophenol	0.0800	0.0800	0.0787	0.0785
3,3'-Dichlorobenzidine	0.0800	0.0800	0.0441 J	0.0420 J
4,6-Dinitro-2-methylphenol	0.160	0.160	0.161	0.153
4-Bromophenyl phenyl ether	0.0800	0.0800	0.0702	0.0673
4-Chloro-3-methylphenol	0.0800	0.0800	0.0688	0.0683
4-Chlorophenyl phenyl ether	0.0800	0.0800	0.0664	0.0656
4-Nitrophenol	0.160	0.160	0.141	0.139
Acenaphthene	0.0800	0.0800	0.0641	0.0639
Acenaphthylene	0.0800	0.0800	0.0628	0.0615
Anthracene	0.0800	0.0800	0.0696	0.0669
Benzidine	0.0800	0.0800	ND	ND
Benzo[a]anthracene	0.0800	0.0800	0.0737	0.0704
Benzo[a]pyrene	0.0800	0.0800	0.0697	0.0660
Benzo[b]fluoranthene	0.0800	0.0800	0.0745	0.0702
Benzo[g,h,i]perylene	0.0800	0.0800	0.0738	0.0700
Benzo[k]fluoranthene	0.0800	0.0800	0.0751	0.0713
Bis(2-chloroethoxy)methane	0.0800	0.0800	0.0699	0.0703
Bis(2-chloroethyl)ether	0.0800	0.0800	0.0717	0.0699
Bis(2-ethylhexyl) phthalate	0.0800	0.0800	0.0756	0.0729
Butyl benzyl phthalate	0.0800	0.0800	0.0746	0.0722
Chrysene	0.0800	0.0800	0.0743	0.0712
Dibenz(a,h)anthracene	0.0800	0.0800	0.0758	0.0688
Diethyl phthalate	0.0800	0.0800	0.0738	0.0724
Dimethyl phthalate	0.0800	0.0800	0.0729	0.0714
Di-n-butyl phthalate	0.0800	0.0800	0.0751	0.0724

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-229290

Method: 625
Preparation: 625

LCS Lab Sample ID:	LCS 280-229290/2-A	Units:	mg/L	LCS Lab Sample ID:	LCSD 280-229290/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/12/2014 1927			Analysis Date:	06/12/2014 1957
Prep Date:	06/09/2014 1535			Prep Date:	06/09/2014 1535
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Di-n-octyl phthalate	0.0800	0.0800	0.0777	0.0752	
Fluoranthene	0.0800	0.0800	0.0737	0.0718	
Fluorene	0.0800	0.0800	0.0666	0.0664	
Hexachlorobenzene	0.0800	0.0800	0.0738	0.0709	
Hexachlorobutadiene	0.0800	0.0800	0.0591	0.0566	
Hexachlorocyclopentadiene	0.0800	0.0800	0.00255 J *	0.00306 J *	
Hexachloroethane	0.0800	0.0800	0.0605	0.0575	
Indeno[1,2,3-cd]pyrene	0.0800	0.0800	0.0742	0.0708	
Isophorone	0.0800	0.0800	0.0638	0.0632	
Naphthalene	0.0800	0.0800	0.0653	0.0640	
n-Decane	0.0800	0.0800	0.0531	0.0507	
Nitrobenzene	0.0800	0.0800	0.0701	0.0703	
N-Nitrosodimethylamine	0.0800	0.0800	0.0665	0.0659	
N-Nitrosodi-n-propylamine	0.0800	0.0800	0.0677	0.0675	
N-Nitrosodiphenylamine	0.0800	0.0800	0.0660	0.0640	
p-Cresol	0.0800	0.0800	0.0675	0.0676	
Pentachlorophenol	0.160	0.160	0.145	0.141	
Phenanthrene	0.0800	0.0800	0.0709	0.0691	
Phenol	0.0800	0.0800	0.0703	0.0697	
Pyrene	0.0800	0.0800	0.0740	0.0706	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 440-187414**Method: 218.6****Preparation: N/A**

Lab Sample ID:	MB 440-187414/3	Analysis Batch:	440-187414	Instrument ID:	IC-16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_TAIIRV167_Hex Ch
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/09/2014 0733	Units:	ug/L	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1000 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium, hexavalent	ND		0.25	1.0

Lab Control Sample - Batch: 440-187414**Method: 218.6****Preparation: N/A**

Lab Sample ID:	LCS 440-187414/2	Analysis Batch:	440-187414	Instrument ID:	IC-16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_TAIIRV167_Hex Ch
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/09/2014 0719	Units:	ug/L	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1000 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium, hexavalent	50.0	52.0	104	90 - 110	

Method Reporting Limit Check - Batch: 440-187414**Method: 218.6****Preparation: N/A**

Lab Sample ID:	MRL 440-187414/4	Analysis Batch:	440-187414	Instrument ID:	IC-16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_TAIIRV167_Hex Ch
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/09/2014 0746	Units:	ug/L	Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1000 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium, hexavalent	1.00	1.03	103	50 - 150	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 440-187414

Method: 218.6
Preparation: N/A

MS Lab Sample ID:	280-56309-1	Analysis Batch:	440-187414	Instrument ID:	IC-16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_TAIIRV167_Hex Ch
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/09/2014 1852			Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1000 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-56309-1	Analysis Batch:	440-187414	Instrument ID:	IC-16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_TAIIRV167_Hex Ch
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/09/2014 1905			Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	1000 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chromium, hexavalent	99	103	90 - 110	4	10		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 440-187414

Method: 218.6
Preparation: N/A

MS Lab Sample ID:	280-56309-1	Units:	ug/L	MSD Lab Sample ID:	280-56309-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/09/2014 1852			Analysis Date:	06/09/2014 1905
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
	Result/Qual				
Chromium, hexavalent	3.5	50.0	50.0	53.0	55.0

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-229230**Method: 200.7 Rev 4.4****Preparation: 200.7****Total Recoverable**

Lab Sample ID:	MB 280-229230/1-A	Analysis Batch:	280-229629	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26A061114G.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/11/2014 0334	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.0044	0.015
Cadmium	ND		0.00045	0.0050
Lead	ND		0.0026	0.0090
Selenium	ND		0.0049	0.015
Zinc	ND		0.0045	0.020
Silver	ND		0.00093	0.010

Method Blank - Batch: 280-229230**Method: 200.7 Rev 4.4****Preparation: 200.7****Total Recoverable**

Lab Sample ID:	MB 280-229230/1-A	Analysis Batch:	280-230134	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26a061214c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/12/2014 2005	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Iron	0.0345	J	0.022	0.10

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Lab Control Sample - Batch: 280-229230

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

Lab Sample ID:	LCS 280-229230/2-A	Analysis Batch:	280-229629	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26A061114G.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/11/2014 0337	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.00	1.01	101	88 - 110	
Cadmium	0.100	0.105	105	88 - 111	
Lead	0.500	0.509	102	89 - 110	
Selenium	2.00	2.08	104	85 - 112	
Zinc	0.500	0.492	98	85 - 111	
Silver	0.0500	0.0492	98	85 - 115	

Lab Control Sample - Batch: 280-229230

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

Lab Sample ID:	LCS 280-229230/2-A	Analysis Batch:	280-230134	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26a061214c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/12/2014 2007	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	0.987	99	89 - 115	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-229230**

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

MS Lab Sample ID:	280-56347-A-1-B MS	Analysis Batch:	280-229629	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26A061114G.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/11/2014 0344			Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56347-A-1-C MSD	Analysis Batch:	280-229629	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26A061114G.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/11/2014 0347			Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

Analyte	% Rec.						
	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	99	98	88 - 110	1	20		
Cadmium	104	102	88 - 111	2	20		
Lead	98	97	89 - 110	1	20		
Selenium	102	100	85 - 112	2	20		
Zinc	97	97	85 - 111	0	20		
Silver	101	97	85 - 115	4	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-229230**

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

MS Lab Sample ID:	280-56347-A-1-B MS	Analysis Batch:	280-230134	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26a061214c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/12/2014 2015			Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56347-A-1-C MSD	Analysis Batch:	280-230134	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-229230	Lab File ID:	26a061214c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/12/2014 2017			Final Weight/Volume:	50 mL
Prep Date:	06/10/2014 1300				
Leach Date:	N/A				

Analyte	% Rec.						
	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	97	258	89 - 115	4	20	4	4

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229230

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

MS Lab Sample ID: 280-56347-A-1-B MS Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/11/2014 0344
Prep Date: 06/10/2014 1300
Leach Date: N/A

MSD Lab Sample ID: 280-56347-A-1-C MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/11/2014 0347
Prep Date: 06/10/2014 1300
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	0.016	1.00	1.00	1.01	0.996
Cadmium	0.0016 J	0.100	0.100	0.106	0.103
Lead	0.056	0.500	0.500	0.549	0.543
Selenium	0.015	2.00	2.00	2.06	2.02
Zinc	0.24	0.500	0.500	0.722	0.723
Silver	ND	0.0500	0.0500	0.0506	0.0487

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229230

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

MS Lab Sample ID: 280-56347-A-1-B MS Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/12/2014 2015
Prep Date: 06/10/2014 1300
Leach Date: N/A

MSD Lab Sample ID: 280-56347-A-1-C MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/12/2014 2017
Prep Date: 06/10/2014 1300
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	35	1.00	1.00	36.2 4	37.8 4

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-229174

Method: 245.1

Preparation: 245.1

Lab Sample ID:	MB 280-229174/1-A	Analysis Batch:	280-229417	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-229174	Lab File ID:	140609taa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/09/2014 1658	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	06/09/2014 1310				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0000390	J	0.000027	0.00020

Lab Control Sample - Batch: 280-229174

Method: 245.1

Preparation: 245.1

Lab Sample ID:	LCS 280-229174/2-A	Analysis Batch:	280-229417	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-229174	Lab File ID:	140609taa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/09/2014 1701	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	06/09/2014 1310				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00500	100	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229174

Method: 245.1

Preparation: 245.1

MS Lab Sample ID:	280-56188-C-1-D MS	Analysis Batch:	280-229417	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-229174	Lab File ID:	140609taa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/09/2014 1742			Final Weight/Volume:	30 mL
Prep Date:	06/09/2014 1310				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56188-C-1-E MSD	Analysis Batch:	280-229417	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-229174	Lab File ID:	140609taa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/09/2014 1744			Final Weight/Volume:	30 mL
Prep Date:	06/09/2014 1310				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	96	103	80 - 120	7	10		

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-229174**

**Method: 245.1
Preparation: 245.1**

MS Lab Sample ID: 280-56188-C-1-D MS Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/09/2014 1742
Prep Date: 06/09/2014 1310
Leach Date: N/A

MSD Lab Sample ID: 280-56188-C-1-E MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/09/2014 1744
Prep Date: 06/09/2014 1310
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.000032 J	0.00500	0.00500	0.00486	0.00519

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-230112

Method: 1664A

Preparation: 1664A

Lab Sample ID:	MB 280-230112/1-A	Analysis Batch:	280-230195	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	280-230112	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/13/2014 1418	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	06/13/2014 0836				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
HEM	ND		1.6	5.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-230112

Method: 1664A

Preparation: 1664A

LCS Lab Sample ID:	LCS 280-230112/2-A	Analysis Batch:	280-230195	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	280-230112	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/13/2014 1418	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	06/13/2014 0836				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-230112/3-A	Analysis Batch:	280-230195	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	280-230112	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	06/13/2014 1418	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	06/13/2014 0836				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
HEM	88	89	78 - 114	1	18	

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-230112

Method: 1664A

Preparation: 1664A

LCS Lab Sample ID:	LCS 280-230112/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-230112/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/13/2014 1418			Analysis Date:	06/13/2014 1418
Prep Date:	06/13/2014 0836			Prep Date:	06/13/2014 0836
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
HEM	40.0	40.0	35.1	35.4

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-229833

Method: 350.1

Preparation: N/A

Lab Sample ID:	MB 280-229833/72	Analysis Batch:	280-229833	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\061114A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/11/2014 1916	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia	ND		0.022	0.10

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-229833

Method: 350.1

Preparation: N/A

LCS Lab Sample ID:	LCS 280-229833/70	Analysis Batch:	280-229833	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\061114A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/11/2014 1912	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-229833/71	Analysis Batch:	280-229833	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\061114A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/11/2014 1914	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Ammonia	96	100	90 - 110	5	10	

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-229833

Method: 350.1

Preparation: N/A

LCS Lab Sample ID:	LCS 280-229833/70	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-229833/71
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/11/2014 1912			Analysis Date:	06/11/2014 1914
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia	2.50	2.50	2.39	2.50

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229833

**Method: 350.1
Preparation: N/A**

MS Lab Sample ID:	280-56365-A-9 MS	Analysis Batch:	280-229833	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\061114A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/11/2014 2022			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56365-A-9 MSD	Analysis Batch:	280-229833	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\061114A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	06/11/2014 2024			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia	111	111	90 - 110	0	10	F1	F1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229833

**Method: 350.1
Preparation: N/A**

MS Lab Sample ID:	280-56365-A-9 MS	Units:	mg/L	MSD Lab Sample ID:	280-56365-A-9 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/11/2014 2022			Analysis Date:	06/11/2014 2024
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike	MSD Spike	MS Result/Qual	MSD	MSD Result/Qual	
		Amount	Amount				
Ammonia	0.26	1.00	1.00	1.37	F1	1.37	F1

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-230046**Method: 351.2****Preparation: 351.2**

Lab Sample ID:	MB 280-230046/3-A	Analysis Batch:	280-230084	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-230046	Lab File ID:	061214TKNA.tab
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/13/2014 0010	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	06/12/2014 1836				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrogen, Kjeldahl	ND		0.18	0.50

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-230046****Method: 351.2****Preparation: 351.2**

LCS Lab Sample ID:	LCS 280-230046/1-A	Analysis Batch:	280-230084	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-230046	Lab File ID:	061214TKNA.tab
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/13/2014 0007	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	06/12/2014 1836				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-230046/2-A	Analysis Batch:	280-230084	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-230046	Lab File ID:	061214TKNA.tab
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/13/2014 0008	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	06/12/2014 1836				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Nitrogen, Kjeldahl	97	98	90 - 110	1	25	

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-230046****Method: 351.2****Preparation: 351.2**

LCS Lab Sample ID:	LCS 280-230046/1-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-230046/2-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/13/2014 0007			Analysis Date:	06/13/2014 0008
Prep Date:	06/12/2014 1836			Prep Date:	06/12/2014 1836
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrogen, Kjeldahl	6.00	6.00	5.82	5.89

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-230046

Method: 351.2
Preparation: 351.2

MS Lab Sample ID:	280-56144-F-10-C MS	Analysis Batch:	280-230084	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-230046	Lab File ID:	061214TKNA.tab
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/13/2014 0031			Final Weight/Volume:	25 mL
Prep Date:	06/12/2014 1836				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56144-F-10-D MSD	Analysis Batch:	280-230084	Instrument ID:	WC_Astoria
Client Matrix:	Water	Prep Batch:	280-230046	Lab File ID:	061214TKNA.tab
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/13/2014 0032			Final Weight/Volume:	25 mL
Prep Date:	06/12/2014 1836				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrogen, Kjeldahl	71	72	90 - 110	1	25	F1	F1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-230046

Method: 351.2
Preparation: 351.2

MS Lab Sample ID:	280-56144-F-10-C MS	Units:	mg/L	MSD Lab Sample ID:	280-56144-F-10-D MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/13/2014 0031			Analysis Date:	06/13/2014 0032
Prep Date:	06/12/2014 1836			Prep Date:	06/12/2014 1836
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike	MSD Spike	MS Result/Qual	MSD	MSD Result/Qual	
		Amount	Amount				
Nitrogen, Kjeldahl	ND	3.00	3.00	2.14	F1	2.17	F1

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-230330
Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-230330/22	Analysis Batch:	280-230330	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0614NXNM.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/14/2014 1211	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N	ND		0.019	0.10

Method Reporting Limit Check - Batch: 280-230330
Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-230330/18	Analysis Batch:	280-230330	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0614NXNM.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/14/2014 1205	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	0.100	0.0930	93	50 - 150	J

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-230330**
Method: 353.2
Preparation: N/A

LCS Lab Sample ID:	LCS 280-230330/20	Analysis Batch:	280-230330	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0614NXNM.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/14/2014 1208	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-230330/21	Analysis Batch:	280-230330	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0614NXNM.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/14/2014 1210	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Nitrate Nitrite as N	99	99	90 - 110	0	10	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-230330**

**Method: 353.2
Preparation: N/A**

LCS Lab Sample ID:	LCS 280-230330/20	Units:	mg/L	LCS Lab Sample ID:	LCSD 280-230330/21
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/14/2014 1208			Analysis Date:	06/14/2014 1210
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate Nitrite as N	5.00	5.00	4.97	4.97

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-230330**

**Method: 353.2
Preparation: N/A**

MS Lab Sample ID:	280-56283-L-1 MS	Analysis Batch:	280-230330	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0614NXNM.R:
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/14/2014 1225			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56283-L-1 MSD	Analysis Batch:	280-230330	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0614NXNM.R:
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/14/2014 1226			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate Nitrite as N	98	96	90 - 110	2	10		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-230330**

**Method: 353.2
Preparation: N/A**

MS Lab Sample ID:	280-56283-L-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-56283-L-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/14/2014 1225			Analysis Date:	06/14/2014 1226
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
	Result	Qual				
Nitrate Nitrite as N	0.031	J	4.00	4.00	3.95	3.86

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-229630

Method: 365.1

Preparation: 365.2/365.3/365

Lab Sample ID:	MB 280-229630/5-A	Analysis Batch:	280-230204	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-229630	Lab File ID:	061314TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/13/2014 1405	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/11/2014 0927				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	0.00596	J	0.0050	0.050

Laboratory Control Sample/ Laboratory Control Sample Duplicate Recovery Report - Batch: 280-229630

Method: 365.1

Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-229630/3-A	Analysis Batch:	280-230204	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-229630	Lab File ID:	061314TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/13/2014 1405	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/11/2014 0927				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-229630/4-A	Analysis Batch:	280-230204	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-229630	Lab File ID:	061314TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/13/2014 1405	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	06/11/2014 0927				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Phosphorus, Total	105	101	90 - 110	4	10	

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-229630

Method: 365.1

Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-229630/3-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-229630/4-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/13/2014 1405			Analysis Date:	06/13/2014 1405
Prep Date:	06/11/2014 0927			Prep Date:	06/11/2014 0927
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Phosphorus, Total	0.500	0.500	0.524	0.503

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229630

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-56309-1	Analysis Batch:	280-230204	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-229630	Lab File ID:	061314TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/13/2014 1405			Final Weight/Volume:	50 mL
Prep Date:	06/11/2014 0927				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56309-1	Analysis Batch:	280-230204	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-229630	Lab File ID:	061314TPHOS.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/13/2014 1405			Final Weight/Volume:	50 mL
Prep Date:	06/11/2014 0927				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phosphorus, Total	90	90	90 - 110	0	10		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229630

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-56309-1	Units:	mg/L	MSD Lab Sample ID:	280-56309-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/13/2014 1405			Analysis Date:	06/13/2014 1405
Prep Date:	06/11/2014 0927			Prep Date:	06/11/2014 0927
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample	MS Spike	MSD Spike	MS	MSD
	Result/Qual	Amount	Amount	Result/Qual	Result/Qual
Phosphorus, Total	0.29	0.500	0.500	0.742	0.745

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-229175

Method: 410.4

Preparation: N/A

Lab Sample ID:	MB 280-229175/5	Analysis Batch:	280-229175	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	06/09/2014 0824	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	5.39	J	4.1	20

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-229175

Method: 410.4

Preparation: N/A

LCS Lab Sample ID:	LCS 280-229175/3	Analysis Batch:	280-229175	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/09/2014 0824	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-229175/4	Analysis Batch:	280-229175	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/09/2014 0824	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Chemical Oxygen Demand	109	109	90 - 110	1	11	

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-229175

Method: 410.4

Preparation: N/A

LCS Lab Sample ID:	LCS 280-229175/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-229175/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/09/2014 0824			Analysis Date:	06/09/2014 0824
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand	100	100	109	109

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229175

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-56309-1	Analysis Batch:	280-229175	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/09/2014 0824			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-56309-1	Analysis Batch:	280-229175	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/09/2014 0824			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chemical Oxygen Demand	101	95	90 - 110	4	11		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-229175

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-56309-1	Units:	mg/L	MSD Lab Sample ID:	280-56309-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/09/2014 0824			Analysis Date:	06/09/2014 0824
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike	MSD Spike	MS Result/Qual	MSD Result/Qual
		Amount	Amount		
Chemical Oxygen Demand	22	50.0	50.0	72.3	69.6

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-229501

Method: SM 2540D

Preparation: N/A

Lab Sample ID:	MB 280-229501/3	Analysis Batch:	280-229501	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	06/10/2014 1526	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	ND		1.1	4.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-229501

Method: SM 2540D

Preparation: N/A

LCS Lab Sample ID:	LCS 280-229501/1	Analysis Batch:	280-229501	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/10/2014 1526	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-229501/2	Analysis Batch:	280-229501	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	06/10/2014 1526	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Total Suspended Solids	89	93	86 - 114	4	20	

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-229501

Method: SM 2540D

Preparation: N/A

LCS Lab Sample ID:	LCS 280-229501/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-229501/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/10/2014 1526			Analysis Date:	06/10/2014 1526
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Suspended Solids	100	100	89.0	93.0

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Duplicate - Batch: 280-229501

Method: SM 2540D

Preparation: N/A

Lab Sample ID:	280-56309-1	Analysis Batch:	280-229501	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	06/10/2014 1526	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	22	21.2	4	10	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Method Blank - Batch: 280-231242

Method: Total Nitrogen

Preparation: N/A

Lab Sample ID:	MB 280-231242/1	Analysis Batch:	280-231242	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/20/2014 0953	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrogen, Total	ND		0.042	0.10

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Laboratory Chronicle

Lab ID: 280-56309-1

Client ID: DB01-W

Sample Date/Time: 06/03/2014 09:45 Received Date/Time: 06/06/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	280-56309-C-1-A		280-229973	280-229290	06/09/2014 15:35	1	TAL DEN	ACF
A:625	280-56309-C-1-A		280-229973	280-229290	06/13/2014 05:56	1	TAL DEN	DCK
A:218.6	280-56309-I-1		440-187414		06/09/2014 18:38	1	TAL IRV	RW
P:200.7	280-56309-H-1-B		280-229629	280-229230	06/10/2014 13:00	1	TAL DEN	WAW
A:200.7 Rev 4.4	280-56309-H-1-B		280-229629	280-229230	06/11/2014 03:54	1	TAL DEN	SJS
P:200.7	280-56309-H-1-B		280-230134	280-229230	06/10/2014 13:00	1	TAL DEN	WAW
A:200.7 Rev 4.4	280-56309-H-1-B		280-230134	280-229230	06/12/2014 20:22	1	TAL DEN	SJS
P:245.1	280-56309-H-1-A		280-229417	280-229174	06/09/2014 13:10	1	TAL DEN	LLB
A:245.1	280-56309-H-1-A		280-229417	280-229174	06/09/2014 17:55	1	TAL DEN	LLB
P:1664A	280-56309-A-1-A		280-230195	280-230112	06/13/2014 08:36	1	TAL DEN	AFB
A:1664A	280-56309-A-1-A		280-230195	280-230112	06/13/2014 14:18	1	TAL DEN	AFB
A:350.1	280-56309-F-1		280-229833		06/11/2014 20:49	1	TAL DEN	CML
P:351.2	280-56309-F-1-D		280-230084	280-230046	06/12/2014 18:36	1	TAL DEN	MW1
A:351.2	280-56309-F-1-D		280-230084	280-230046	06/13/2014 00:36	1	TAL DEN	MW1
A:353.2	280-56309-F-1		280-230330		06/14/2014 12:33	1	TAL DEN	DVA
P:365.2/365.3/365	280-56309-F-1-A		280-230204	280-229630	06/11/2014 09:27	1	TAL DEN	AJS
A:365.1	280-56309-F-1-A		280-230204	280-229630	06/13/2014 14:05	1	TAL DEN	AJS
A:410.4	280-56309-E-1		280-229175		06/09/2014 08:24	1	TAL DEN	AFB
A:SM 2540D	280-56309-G-1		280-229501		06/10/2014 15:26	1	TAL DEN	MW1
A:Total Nitrogen	280-56309-A-1		280-231242		06/20/2014 09:53	1	TAL DEN	RKS
A:Field Sampling	280-56309-A-1		280-229380		06/03/2014 13:45	1	TAL DEN	PS

Lab ID: 280-56309-1 MS

Client ID: DB01-W

Sample Date/Time: 06/03/2014 09:45 Received Date/Time: 06/06/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:218.6	280-56309-I-1 MS		440-187414		06/09/2014 18:52	1	TAL IRV	RW
P:365.2/365.3/365	280-56309-F-1-B MS		280-230204	280-229630	06/11/2014 09:27	1	TAL DEN	AJS
A:365.1	280-56309-F-1-B MS		280-230204	280-229630	06/13/2014 14:05	1	TAL DEN	AJS
A:410.4	280-56309-E-1 MS		280-229175		06/09/2014 08:24	1	TAL DEN	AFB

Lab ID: 280-56309-1 MSD

Client ID: DB01-W

Sample Date/Time: 06/03/2014 09:45 Received Date/Time: 06/06/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:218.6	280-56309-I-1 MSD		440-187414		06/09/2014 19:05	1	TAL IRV	RW
P:365.2/365.3/365	280-56309-F-1-C		280-230204	280-229630	06/11/2014 09:27	1	TAL DEN	AJS
A:365.1	280-56309-F-1-C		280-230204	280-229630	06/13/2014 14:05	1	TAL DEN	AJS
A:410.4	280-56309-E-1 MSD		280-229175		06/09/2014 08:24	1	TAL DEN	AFB

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Laboratory Chronicle

Lab ID: 280-56309-1 DU

Client ID: DB01-W

Sample Date/Time: 06/03/2014 09:45 Received Date/Time: 06/06/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540D	280-56309-G-1 DU		280-229501		06/10/2014 15:26	1	TAL DEN	MW1

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	MB 280-229290/1-A	280-229973	280-229290	06/09/2014 15:35	1	TAL DEN	ACF	
A:625	MB 280-229290/1-A	280-229973	280-229290	06/12/2014 18:57	1	TAL DEN	DCK	
A:218.6	MB 440-187414/3	440-187414		06/09/2014 07:33	1	TAL IRV	RW	
P:200.7	MB 280-229230/1-A	280-229629	280-229230	06/10/2014 13:00	1	TAL DEN	WAW	
A:200.7 Rev 4.4	MB 280-229230/1-A	280-229629	280-229230	06/11/2014 03:34	1	TAL DEN	SJS	
P:200.7	MB 280-229230/1-A	280-230134	280-229230	06/10/2014 13:00	1	TAL DEN	WAW	
A:200.7 Rev 4.4	MB 280-229230/1-A	280-230134	280-229230	06/12/2014 20:05	1	TAL DEN	SJS	
P:245.1	MB 280-229174/1-A	280-229417	280-229174	06/09/2014 13:10	1	TAL DEN	LLB	
A:245.1	MB 280-229174/1-A	280-229417	280-229174	06/09/2014 16:58	1	TAL DEN	LLB	
P:1664A	MB 280-230112/1-A	280-230195	280-230112	06/13/2014 08:36	1	TAL DEN	AFB	
A:1664A	MB 280-230112/1-A	280-230195	280-230112	06/13/2014 14:18	1	TAL DEN	AFB	
A:350.1	MB 280-229833/72	280-229833		06/11/2014 19:16	1	TAL DEN	CML	
P:351.2	MB 280-230046/3-A	280-230084	280-230046	06/12/2014 18:36	1	TAL DEN	MW1	
A:351.2	MB 280-230046/3-A	280-230084	280-230046	06/13/2014 00:10	1	TAL DEN	MW1	
A:353.2	MB 280-230330/22	280-230330		06/14/2014 12:11	1	TAL DEN	DVA	
P:365.2/365.3/365	MB 280-229630/5-A	280-230204	280-229630	06/11/2014 09:27	1	TAL DEN	AJS	
A:365.1	MB 280-229630/5-A	280-230204	280-229630	06/13/2014 14:05	1	TAL DEN	AJS	
A:410.4	MB 280-229175/5	280-229175		06/09/2014 08:24	1	TAL DEN	AFB	
A:SM 2540D	MB 280-229501/3	280-229501		06/10/2014 15:26	1	TAL DEN	MW1	
A:Total Nitrogen	MB 280-231242/1	280-231242		06/20/2014 09:53	1	TAL DEN	RKS	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	LCS 280-229290/2-A	280-229973	280-229290	06/09/2014 15:35	1	TAL DEN	ACF	
A:625	LCS 280-229290/2-A	280-229973	280-229290	06/12/2014 19:27	1	TAL DEN	DCK	
A:218.6	LCS 440-187414/2	440-187414		06/09/2014 07:19	1	TAL IRV	RW	
P:200.7	LCS 280-229230/2-A	280-229629	280-229230	06/10/2014 13:00	1	TAL DEN	WAW	
A:200.7 Rev 4.4	LCS 280-229230/2-A	280-229629	280-229230	06/11/2014 03:37	1	TAL DEN	SJS	
P:200.7	LCS 280-229230/2-A	280-230134	280-229230	06/10/2014 13:00	1	TAL DEN	WAW	
A:200.7 Rev 4.4	LCS 280-229230/2-A	280-230134	280-229230	06/12/2014 20:07	1	TAL DEN	SJS	
P:245.1	LCS 280-229174/2-A	280-229417	280-229174	06/09/2014 13:10	1	TAL DEN	LLB	
A:245.1	LCS 280-229174/2-A	280-229417	280-229174	06/09/2014 17:01	1	TAL DEN	LLB	
P:1664A	LCS 280-230112/2-A	280-230195	280-230112	06/13/2014 08:36	1	TAL DEN	AFB	
A:1664A	LCS 280-230112/2-A	280-230195	280-230112	06/13/2014 14:18	1	TAL DEN	AFB	
A:350.1	LCS 280-229833/70	280-229833		06/11/2014 19:12	1	TAL DEN	CML	
P:351.2	LCS 280-230046/1-A	280-230084	280-230046	06/12/2014 18:36	1	TAL DEN	MW1	
A:351.2	LCS 280-230046/1-A	280-230084	280-230046	06/13/2014 00:07	1	TAL DEN	MW1	
A:353.2	LCS 280-230330/20	280-230330		06/14/2014 12:08	1	TAL DEN	DVA	
P:365.2/365.3/365	LCS 280-229630/3-A	280-230204	280-229630	06/11/2014 09:27	1	TAL DEN	AJS	
A:365.1	LCS 280-229630/3-A	280-230204	280-229630	06/13/2014 14:05	1	TAL DEN	AJS	
A:410.4	LCS 280-229175/3	280-229175		06/09/2014 08:24	1	TAL DEN	AFB	
A:SM 2540D	LCS 280-229501/1	280-229501		06/10/2014 15:26	1	TAL DEN	MW1	

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	LCSD 280-229290/3-A	280-229973	280-229290	06/09/2014 15:35	1	TAL DEN	ACF	
A:625	LCSD 280-229290/3-A	280-229973	280-229290	06/12/2014 19:57	1	TAL DEN	DCK	
P:1664A	LCSD 280-230112/3-A	280-230195	280-230112	06/13/2014 08:36	1	TAL DEN	AFB	
A:1664A	LCSD 280-230112/3-A	280-230195	280-230112	06/13/2014 14:18	1	TAL DEN	AFB	
A:350.1	LCSD 280-229833/71	280-229833		06/11/2014 19:14	1	TAL DEN	CML	
P:351.2	LCSD 280-230046/2-A	280-230084	280-230046	06/12/2014 18:36	1	TAL DEN	MW1	
A:351.2	LCSD 280-230046/2-A	280-230084	280-230046	06/13/2014 00:08	1	TAL DEN	MW1	
A:353.2	LCSD 280-230330/21	280-230330		06/14/2014 12:10	1	TAL DEN	DVA	
P:365.2/365.3/365	LCSD 280-229630/4-A	280-230204	280-229630	06/11/2014 09:27	1	TAL DEN	AJS	
A:365.1	LCSD 280-229630/4-A	280-230204	280-229630	06/13/2014 14:05	1	TAL DEN	AJS	
A:410.4	LCSD 280-229175/4	280-229175		06/09/2014 08:24	1	TAL DEN	AFB	
A:SM 2540D	LCSD 280-229501/2	280-229501		06/10/2014 15:26	1	TAL DEN	MW1	

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Laboratory Chronicle

Lab ID: MRL

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
A:218.6	MRL 440-187414/4		440-187414		06/09/2014	07:46	1	TAL IRV	RW
A:353.2	MRL 280-230330/18		280-230330		06/14/2014	12:05	1	TAL DEN	DVA

Lab ID: MS

Client ID: N/A

Sample Date/Time: 06/03/2014 13:20

Received Date/Time: 06/05/2014 09:00

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:200.7	280-56347-A-1-B MS		280-229629	280-229230	06/10/2014	13:00	1	TAL DEN	WAW
A:200.7 Rev 4.4	280-56347-A-1-B MS		280-229629	280-229230	06/11/2014	03:44	1	TAL DEN	SJS
P:200.7	280-56347-A-1-B MS		280-230134	280-229230	06/10/2014	13:00	1	TAL DEN	WAW
A:200.7 Rev 4.4	280-56347-A-1-B MS		280-230134	280-229230	06/12/2014	20:15	1	TAL DEN	SJS
P:245.1	280-56188-C-1-D MS		280-229417	280-229174	06/09/2014	13:10	1	TAL DEN	LLB
A:245.1	280-56188-C-1-D MS		280-229417	280-229174	06/09/2014	17:42	1	TAL DEN	LLB
A:350.1	280-56365-A-9 MS		280-229833		06/11/2014	20:22	1	TAL DEN	CML
P:351.2	280-56144-F-10-C MS		280-230084	280-230046	06/12/2014	18:36	1	TAL DEN	MW1
A:351.2	280-56144-F-10-C MS		280-230084	280-230046	06/13/2014	00:31	1	TAL DEN	MW1
A:353.2	280-56283-L-1 MS		280-230330		06/14/2014	12:25	1	TAL DEN	DVA

Quality Control Results

Client: Waste Management

Job Number: 280-56309-1

Laboratory Chronicle

Lab ID:	MSD	Client ID:	N/A	Sample Date/Time:	06/03/2014 13:20	Received Date/Time:	06/05/2014 09:00	
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:200.7	280-56347-A-1-C MSD	280-229629	280-229230	06/10/2014 13:00	1	TAL DEN	WAW	
A:200.7 Rev 4.4	280-56347-A-1-C MSD	280-229629	280-229230	06/11/2014 03:47	1	TAL DEN	SJS	
P:200.7	280-56347-A-1-C MSD	280-230134	280-229230	06/10/2014 13:00	1	TAL DEN	WAW	
A:200.7 Rev 4.4	280-56347-A-1-C MSD	280-230134	280-229230	06/12/2014 20:17	1	TAL DEN	SJS	
P:245.1	280-56188-C-1-E MSD	280-229417	280-229174	06/09/2014 13:10	1	TAL DEN	LLB	
A:245.1	280-56188-C-1-E MSD	280-229417	280-229174	06/09/2014 17:44	1	TAL DEN	LLB	
A:350.1	280-56365-A-9 MSD	280-229833		06/11/2014 20:24	1	TAL DEN	CML	
P:351.2	280-56144-F-10-D MSD	280-230084	280-230046	06/12/2014 18:36	1	TAL DEN	MW1	
A:351.2	280-56144-F-10-D MSD	280-230084	280-230046	06/13/2014 00:32	1	TAL DEN	MW1	
A:353.2	280-56283-L-1 MSD	280-230330		06/14/2014 12:26	1	TAL DEN	DVA	

Lab References:

TAL DEN = TestAmerica Denver

TAL IRV = TestAmerica Irvine

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Honolulu

1946 Young St. Suite 400A

Honolulu, HI 96826

Tel: 808-486-5227

TestAmerica Job ID: HXF0004

Client Project/Site: [none]

Client Project Description: AECOM, W GSL STORMWATER

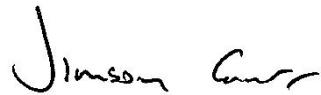
For:

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Attn: Betsy Sara



Authorized for release by:

6/17/2014 8:46:53 PM

Jimson E. Carr, Service Center Manager

808-486-5227

Jimson.Carr@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Qualifiers

WetChem

Qualifier	Qualifier Description
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
K	The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore the reported result is an estimated value only.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Job ID: HXF0004

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

At sample receipt, the cooler/sample was 27 degrees C.

TestAmerica has determined that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

BOD:

Laboratory Control Spike and BOD Setup Oxygen Depletion failed to meet acceptance criteria. As such BOD value reported should be considered an estimate.

Sample Summary

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HXF0004-01	DB01 - W	Water - NonPotable	06/03/14 09:45	06/03/14 11:40

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Detection Summary

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Client Sample ID: DB01 - W

Lab Sample ID: HXF0004-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
BOD - 5 Day	2.19	K	2.00		mg/L	1.00		SM5210B	Total

This Detection Summary does not include radiochemical test results.

TestAmerica Honolulu

Client Sample Results

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Client Sample ID: DB01 - W

Date Collected: 06/03/14 09:45

Date Received: 06/03/14 11:40

Lab Sample ID: HXF0004-01

Matrix: Water - NonPotable

Method: SM5210B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	2.19	K	2.00		mg/L		06/03/14 15:24	06/08/14 20:27	1.00

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QC Sample Results

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Method: SM5210B - General Chemistry Parameters

Lab Sample ID: 14F0003-BLK1

Matrix: Water - NonPotable

Analysis Batch: 14F0003

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 14F0003_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
BOD - 5 Day	ND		2.00		mg/L		06/03/14 15:19	06/08/14 20:18	1.00

Lab Sample ID: 14F0003-BS1

Matrix: Water - NonPotable

Analysis Batch: 14F0003

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 14F0003_P

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	RPD
	Added	Result	Qualifier					
BOD - 5 Day	198	164	L2	mg/L		83	85 - 115	

Lab Sample ID: 14F0003-DUP1

Matrix: Water - NonPotable

Analysis Batch: 14F0003

Client Sample ID: DB01 - W

Prep Type: Total

Prep Batch: 14F0003_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD
	Result	Qualifier					
BOD - 5 Day	2.19	K		2.08	K	mg/L	5

Limit 20

QC Association Summary

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

WetChem

Analysis Batch: 14F0003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
14F0003-BLK1	Method Blank	Total	Water - NonPotable	SM5210B	14F0003_P
14F0003-BS1	Lab Control Sample	Total	Water - NonPotable	SM5210B	14F0003_P
14F0003-DUP1	DB01 - W	Total	Water - NonPotable	SM5210B	14F0003_P
HXF0004-01	DB01 - W	Total	Water - NonPotable	SM5210B	14F0003_P

Prep Batch: 14F0003_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
14F0003-BLK1	Method Blank	Total	Water - NonPotable	Default Prep GenChem	14F0003_P
14F0003-BS1	Lab Control Sample	Total	Water - NonPotable	Default Prep GenChem	14F0003_P
14F0003-DUP1	DB01 - W	Total	Water - NonPotable	Default Prep GenChem	14F0003_P
HXF0004-01	DB01 - W	Total	Water - NonPotable	Default Prep GenChem	14F0003_P

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TestAmerica Honolulu

Lab Chronicle

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Client Sample ID: DB01 - W

Lab Sample ID: HXF0004-01

Date Collected: 06/03/14 09:45

Matrix: Water - NonPotable

Date Received: 06/03/14 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Default Prep GenChem		1.00	14F0003_P	06/03/14 15:24	ENM	TAL HON
Total	Analysis	SM5210B		1.00	14F0003	06/08/14 20:27	ENM	TAL HON

Laboratory References:

TAL HON = TestAmerica Honolulu, 1946 Young St. Suite 400A, Honolulu, HI 96826, TEL 808-486-5227

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TestAmerica Honolulu

Certification Summary

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Laboratory: TestAmerica Honolulu

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Hawaii	State Program	9	N/A	06-28-14
USDA	Federal		HON-S-206	01-31-15

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Method Summary

Client: TestAmerica Denver
Project/Site: [none]

TestAmerica Job ID: HXF0004

Method	Method Description	Protocol	Laboratory
SM5210B	General Chemistry Parameters		TAI HON

Protocol References:

Laboratory References:

TAL HON = TestAmerica Honolulu, 1946 Young St. Suite 400A, Honolulu, HI 96826, TEL 808-486-5227

Destination Laboratory DENVER

Destination Laboratory PM (if known) _____

Drop Shipment Receipt Checklist

Client Name: WASTE MGMT./ AFC & MDate/ Time Received: 6/3/2014 12:17Received By: MATTHEW BEERS**Matrices:****Carrier:****Airbill# :**

Shipping container/cooler in good condition?

Yes No Not Present

Chain of Custody present?

Yes No

Chain of Custody Signed when relinquished and received?

Yes No

Cooler opened at TestAmerica Honolulu?

Yes No

Sample containers matched to COC at TestAmerica Honolulu?

Yes No

Any sample containers obviously broken/damaged upon receipt?

Yes No

Sample containers on ice?

Yes No

Type: _____

Custody seals present? If so, location? (Cooler, sample containers?)

Yes No

Custody seals intact?

Yes No

Water - VOA Vials have Zero Headspace?

Yes No No VOA vials present:

Water - pH acceptable upon receipt?

Yes No Not Checked:

Encires / MI-VOC / 5035 Vials Present?

pH Adjusted? Yes No Final pH:

Sample Filtration Needed?

Yes No Filtered in Field:

DODQSM / QAPP Project (if known)?

Yes No

Type: _____

Temperature Blank Present? Yes No Sample Container Temperature: 27.0 °C

Samples drop shipped on ice?

Yes No Type: WETDate of drop shipment: 6/03/2014**Comments/ Sampling Handling Notes:**

FIELD INFORMATION FORM

Site Name:

WGSL

Site No.:

Sample Point:

DB01W

Sample ID

This Waste Management Field Information Form is Required

This form is to be completed in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).



Laboratory Use Only/Lab ID

PURGE INFO		PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOL PURGED			
<i>Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below</i>										
PURGE/SAMPLE EQUIPMENT	Purging and Sampling Equipment . . . Dedicated. <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N		Filter Device: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N 0.45 µ or _____ µ (circle or fill in)							
	Purging Device <input type="checkbox"/>		A- Submersible Pump	D-Builer	A-In-line Disposable		C-Vacuum			
	Sampling Device <input type="checkbox"/>		B-Peristaltic Pump	E-Piston Pump	B-Pressure		X-Other: _____			
	X-Other: _____		C-QED Bladder Pump	F-Dipper/Bottle	Sample Tube Type: _____		A-Teflon	C-PVC	X-Other: _____	
WELL DATA	Well Elevation (at TOC)	<input type="checkbox"/> (ft/msl)		Depth to Water (DTW) (from TOC)	<input type="checkbox"/> (ft)		Groundwater Elevation (site datum, from TOC)	<input type="checkbox"/> (ft/msl)		
	Total Well Depth (from TOC)	<input type="checkbox"/> (ft)		Stick Up (from ground elevation)	<input type="checkbox"/> (ft)		Casing ID (in)	Casing Material		
	<i>Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.</i>									
STABILIZATION DATA (Optional)	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<i>Suggested range for 3 consec readings or note Permit/State requirements: +/- 0.2 +/- 3% +/- 10% +/- 25 mV Stabilize</i>									
<i>Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.</i>										
FIELD DATA	SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other:		
	<input type="checkbox"/> 060314	<input type="checkbox"/> 7.59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<i>Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site).</i>										
FIELD COMMENTS	Sample Appearance: <i>slightly murky</i>		Odor: <i>None</i>	Color: <i>light tan</i>		Other: _____				
	Weather Conditions (required daily, or as conditions change):		<i>wind</i>	Direction/Speed: <i>SE 5 mph</i>	Outlook: <i>Partly cloudy</i>	Precipitation: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N				
	<i>Specific Comments (including purge/well volume calculations if required):</i>									
	<i>time</i>	<i>flow (West only)</i>	<i>A 0945 7.89 0.125in = 0.025 ft³/s</i>		<i>East not flowing during time of Sampling</i>					
	<i>B 1000</i>	<i>7.84</i>	<i>0.125in = 0.025 ft³/s</i>							
	<i>C 1015</i>	<i>7.83</i>	<i>0.125in = 0.025 ft³/s</i>							
	<i>D 1030</i>	<i>7.95</i>	<i>0.125in = 0.025 ft³/s</i>							
	<i>I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):</i>									
	<i>6/3/14</i>	<i>Michelle Wong</i>	<i>Michelle Wong</i>		<i>AECON</i>					
	<i>6/3/14</i>	<i>Debra Divers</i>	<i>Debra Divers</i>		<i>AECON</i>					
Date	Name	Signature		Company						
<i>DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy</i>										

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-56309-1

Login Number: 56309

List Source: TestAmerica Denver

List Number: 1

Creator: Knauf, James R

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-56309-1

Login Number: 56309

List Source: TestAmerica Irvine

List Number: 2

List Creation: 06/07/14 01:41 PM

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	